

ABSTRACT

MAGNETIC HEAD HAVING MEDIA HEATING DEVICE THAT IS ELECTRICALLY CONNECTED TO MAGNETIC POLE PIECE

An embodiment of a magnetic head of the present invention includes a media
5 heating device that is fabricated within the magnetic head structure following the
fabrication of the read head element of the magnetic head. The media heating device is
preferably fabricated between the first and second magnetic pole layers and close to the
ABS surface of the head. The heating device includes electrical leads and an electrically
resistive heating element that is preferably comprised of TaSiN, NiCr or NiFe, and in the
10 present invention one or both of the magnetic poles are utilized as an electrical lead of the
heating device. The heating device serves to heat the magnetic media immediately prior
to the passage of the magnetic media beneath the pole tip, which lowers the localized
coercivity of the media and facilitates the writing of data to the media by the write head
element of the magnetic head.